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Atty's 23287

Pat. App. 10/536,608

CLAIM AMENDMENTS

1. (currently amended) A gas-measuring device with noise compensation having a gas sensor $[(1)]$ for generating a measurement signal $[(S1)]$ dependent upon gas concentration and which includes a noise component, characterized in that the gas sensor $[(1)]$ has connected downstream thereof a high-pass filter $[(13)]$ with an adjustable limiting frequency and ~~whereby the limiting frequency is predeterminable by means of a selector~~ an evaluating unit as a function of the noise component.

2. (currently amended) The gas-measuring device according to patent claim 1 characterized in that a low-pass filter $[(5)]$ is provided ~~which is connected between the evaluating unit and the gas sensor~~ $[(1)]$.

3. (currently amended) The gas-measuring device according to patent claim 2, characterized in that a computing unit $[(6)]$ is connected between the evaluating unit and the low-pass filter $[(5)]$ and is provided for calculating ~~[[the]]~~ a pitch $[(S')]$ of the filter output signal $[(S5)]$ arising from the low-pass filter 5.

4. (currently amended) The gas-measuring device according to patent claim 1, characterized in that the ~~selector~~ evaluating unit at its output side is connected with a control